

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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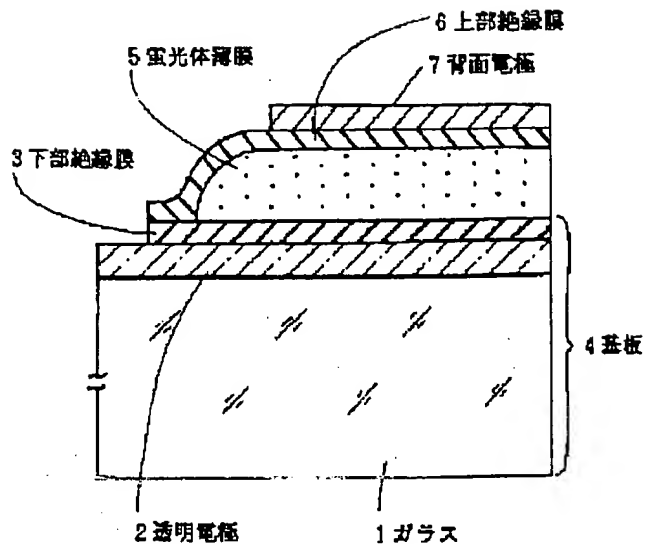
APPLICATION DATE : 21-10-93  
APPLICATION NUMBER : 05263815

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : MATSUOKA TOMIZO;

INT.CL. : H05B 33/10 G09F 9/30 H05B 33/14

TITLE : PHOSPHOR THIN FILM AND  
MANUFACTURE THEREOF AND THIN  
FILM EL PANEL



ABSTRACT : PURPOSE: To provide a wide range multicolor EL from red to blue that does not need a filter.

CONSTITUTION: A transparent electrode 2 and a lower insulating film 3 are formed on a glass sheet 1 in this order to form a substrate 4 for EL element. A phosphor thin film 5 is formed by 600-800nm on the substrate 4. After an upper insulating film 6 is formed on the phosphor thin film 5, a back plate 7 is formed thereon to form a thin film EL element. The phosphor thin film 5 is a phosphor thin film primarily consisting of a compound expressed by a constitutional formula of  $AB_2C_4:Re$ , where A is at least one element chosen among a group of Mg, Ca, Sr, Ba, Eu and Yb, B is at least one element chosen among a group of Al, Ga and In, C is at least one element chosen between S or Se, and Re is a rare earth additive.

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